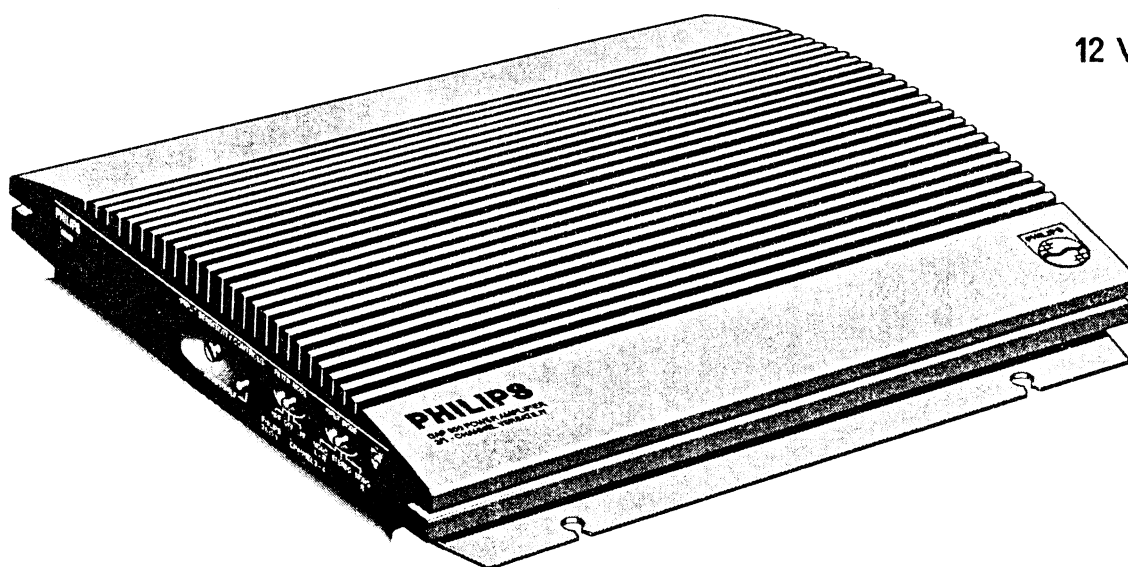


Service  
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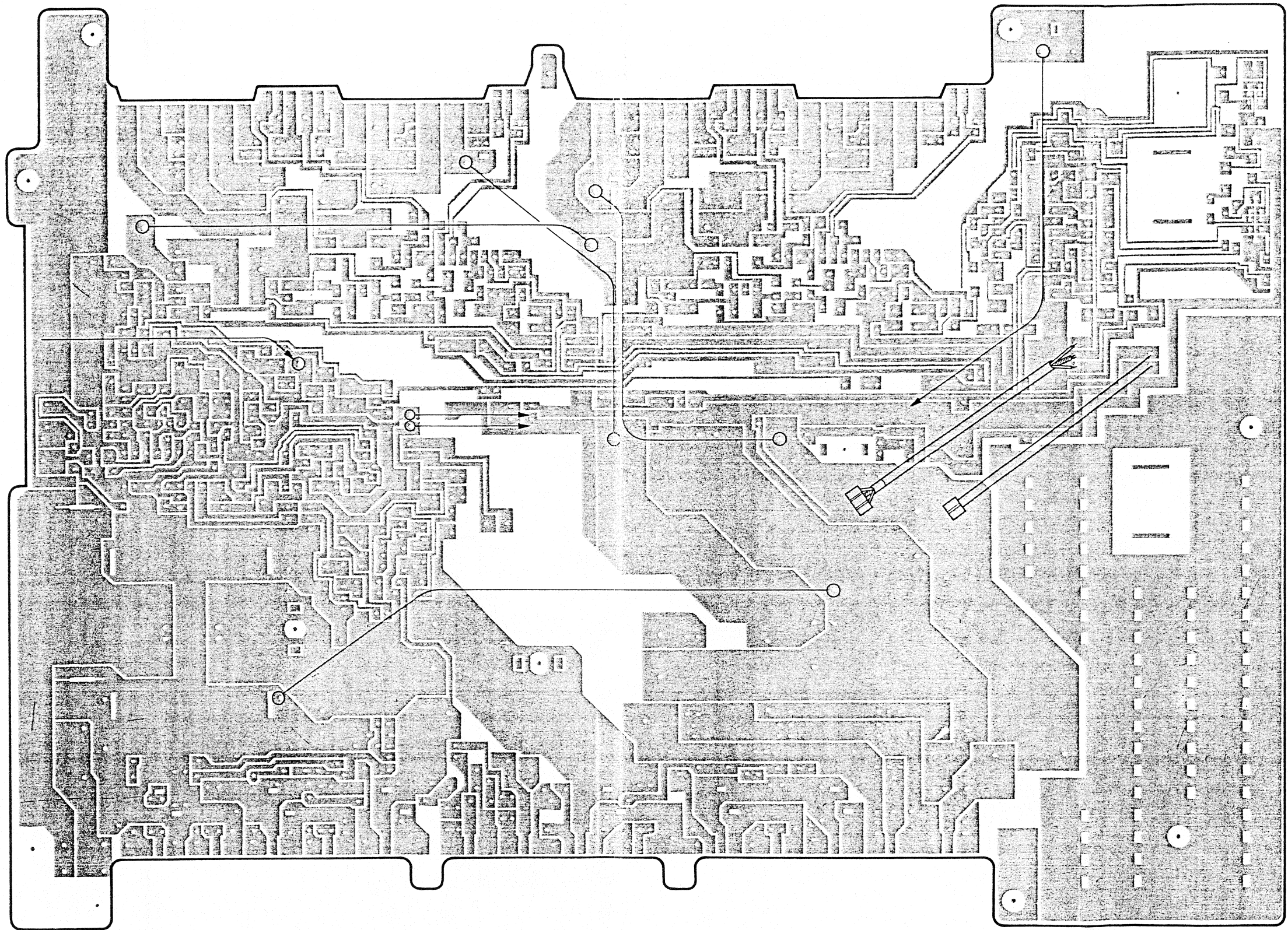
# Service Manual

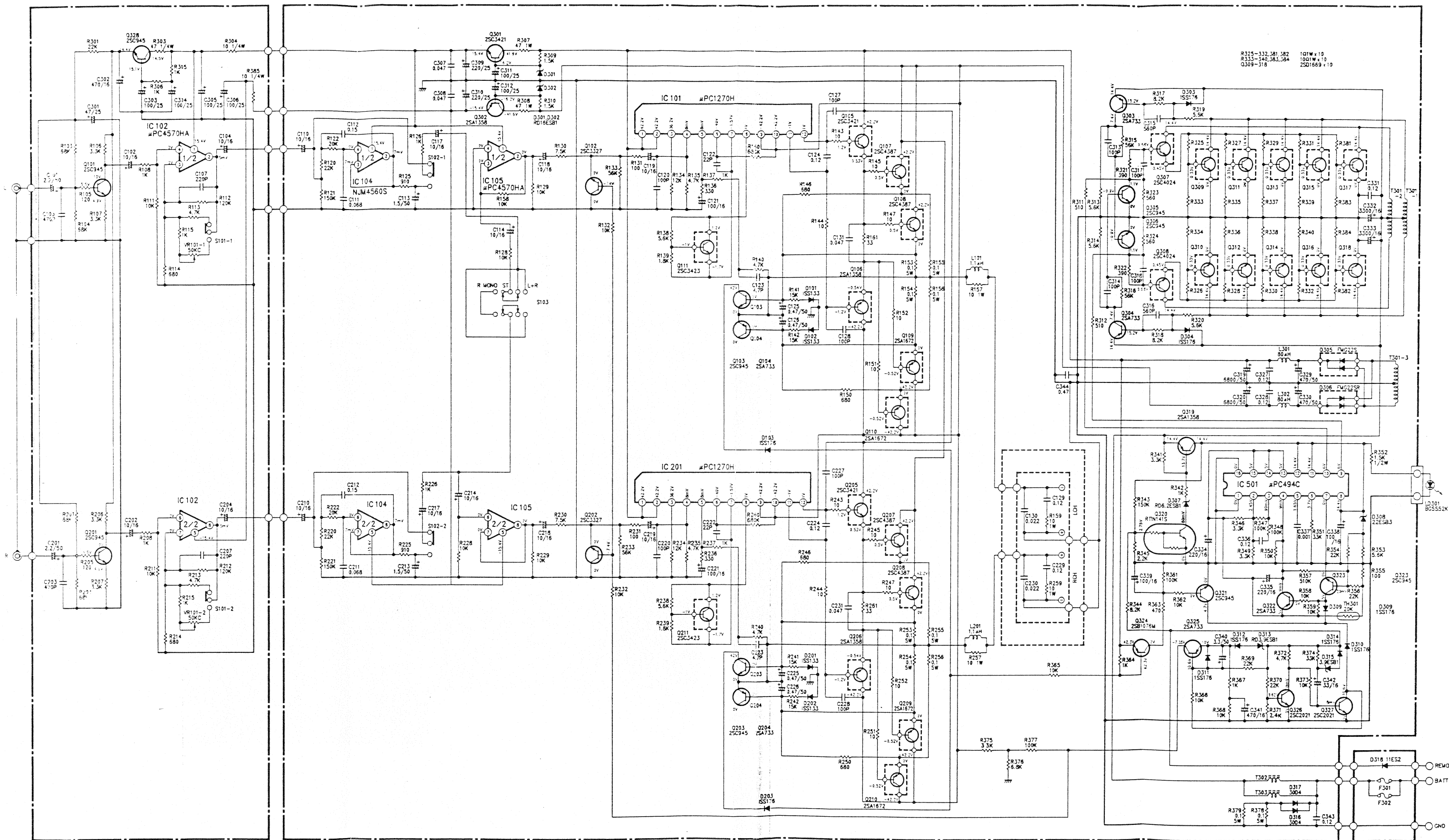


12 V 

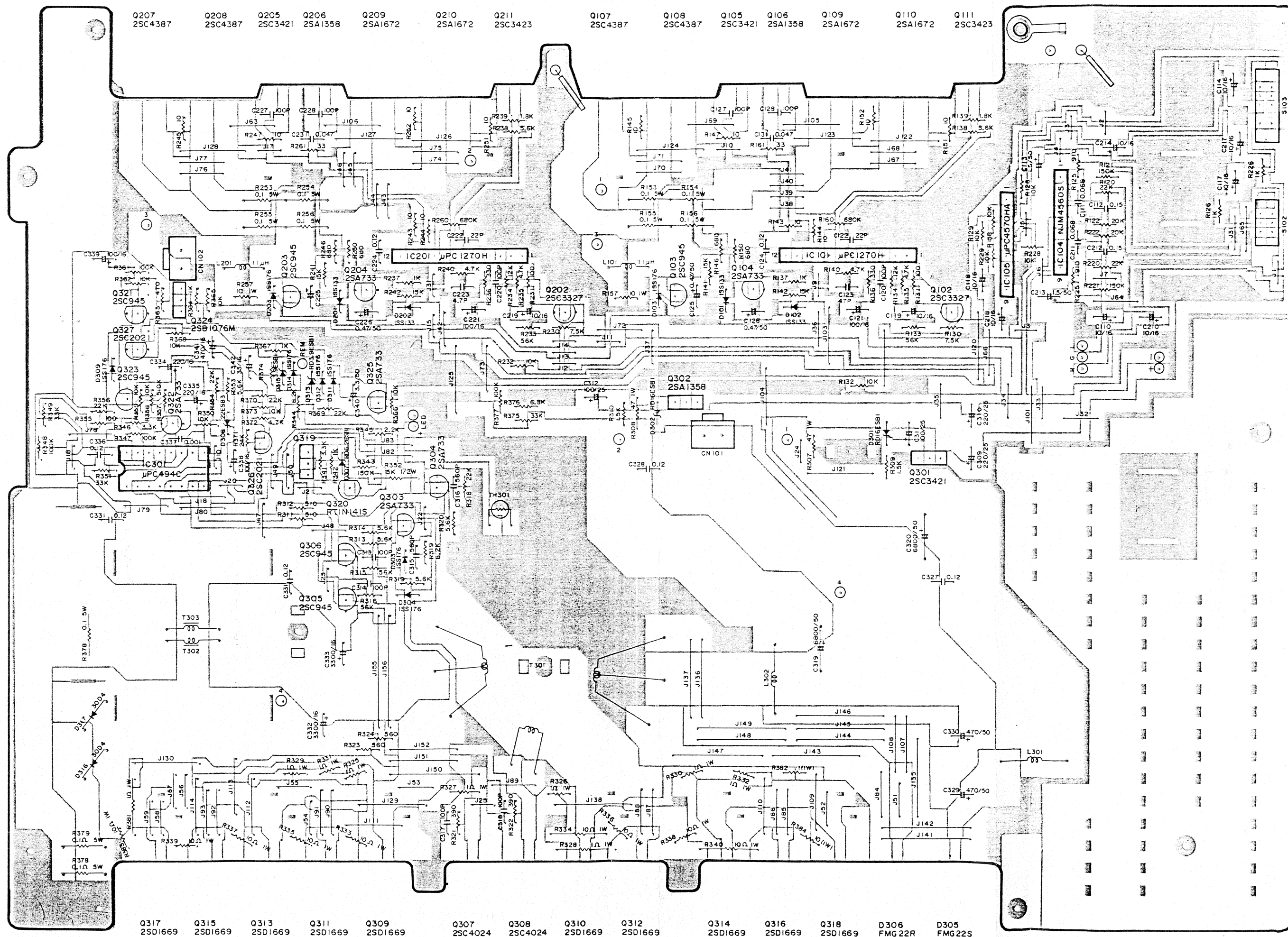
Power output	2 x 125 Watt (THD=0.08%) (or 1 x 350 Watt)	CMR	40 dB
Maximum power	2 x 180 Watt (or 1 x 350 Watt)	Channel separation	80 dB
Input sensitivity	0.1 - 2.0 V	Signal to noise ratio	105 dB (A-weighted)
Input impedance	10 kΩ	Residual noise	0.6 mV (input shorted)
Frequency response	5 Hz - 100 kHz (-3dB)	Stand - by current	1.0 mA maximum
Low Pass Filter	at 80 Hz	Fuse size	2 x 20 A
		Size L x W x H (mm.)	320 x 305 x 62
		L x W x H (inches)	12.6 x 12 x 2.45







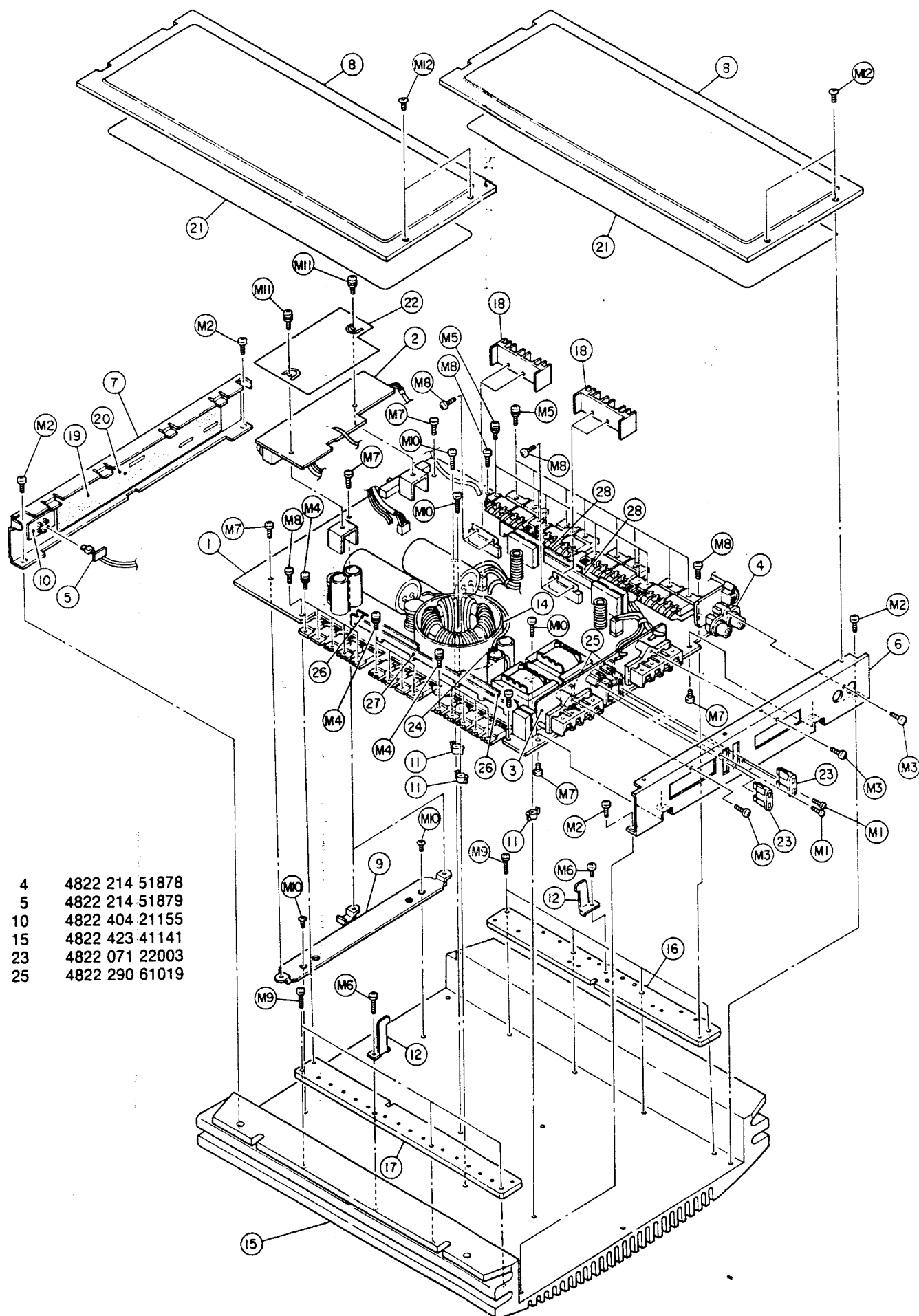




Q207 25C4387 Q208 25C4387 Q205 25C3421 Q206 25A1358 Q209 25A1672 Q210 25A1672 Q211 25C3423 Q107 25C4387 Q108 25C4387 Q105 25C3421 Q106 25A1358 Q109 25A1672 Q110 25A1672 Q111 25C3423

Q317 25D1669 Q315 25D1669 Q313 25D1669 Q311 25D1669 Q309 25D1669 Q307 25C4024 Q308 25C4024 Q310 25D1669 Q312 25D1669 Q314 25D1669 Q316 25D1669 Q318 25D1669 D306 FMG22R D305 FMG22S





LD501	4822 130 32662	LED RED
TH301	4822 116 80539	THERMISTOR
L101	4822 157 63242	COIL 1.1 $\mu$ H
L301	4822 157 63241	COIL 80 $\mu$ H
T301	4822 146 21625	TRANSFORMER
T302	4822 148 81165	TRANSFORMER
S101	4822 277 21522	SLIDE SWITCH
S103	4822 277 21521	SLIDE SWITCH



IC101	4822 209 72756	UPC1270H
IC104	4822 209 63881	NJM4560S
IC501	4822 209 83349	UPC494C
Q101	4822 130 61859	2SC945L
Q102	4822 130 61007	2SC3327
Q103	4822 130 61859	2SC945L
Q104	4822 130 61867	2SA733
Q105	4822 130 60354	2SC3421
Q106	4822 130 62709	2SA1358
Q111	4822 130 62711	2SC3423
Q309	4822 130 62195	2SD1669
Q320	4822 130 61006	141S-TP
Q324	4822 130 62712	2SB1076M



D101	4822 130 32778	1SS133
D103	4822 130 33993	1SS176TA
D301	4822 130 80674	RD16ESB1
D305	4822 130 62714	FMG22S STACK
D306	4822 130 82576	FMG22SR STACK
D308	4822 130 80675	RD22ESB3 ZENER
D307	4822 130 80673	RD6.2ESB1 ZENER
D313	4822 130 32377	RD3.9ESB1 ZENER
D316	4822 130 80681	30D4



R102	4822 050 16802	6k8 1/8W 5%
R103	4822 050 16803	68k 1/8W 5%
R105	4822 050 11201	120 $\Omega$ 1/8W 5%
R106	4822 050 13302	3k3 1/8W 5%
R108	4822 050 11002	1k 1/8W 5%
R111	4822 050 11003	10k 1/8W 5%
R112	4822 050 11204	120k 1/8W 5%
R113	4822 050 14702	4k7 1/8W 5%
R114	4822 050 16801	680 $\Omega$ 1/8W 5%
R120	4822 050 12203	22k 1/8W 5%
R121	4822 050 11504	150k 1/8W 5%
R122	4822 050 12003	20k 1/8W 5%
R125	4822 050 19101	910 $\Omega$ 1/8W 5%
R126	4822 050 11002	1k 1/8W 5%
R128	4822 050 11003	10k 1/8W 5%
R131	4822 050 11001	100 $\Omega$ 1/8W 5%
R133	4822 050 15603	56k 1/8W 5%
R134	4822 050 11203	12k 1/8W 5%
R138	4822 050 15602	5k6 1/8W 5%
R141	4822 050 11503	15k 1/8W 5%
R143	4822 050 11009	10 $\Omega$ 1/8W 5%
R146	4822 050 16801	680 $\Omega$ 1/8W 5%
R153	4822 111 92004	0.1 $\Omega$ x2
R157	4822 110 92002	10 $\Omega$ 1W 5%
R160	4822 050 16804	680k 1/8W 5%



R301	4822 050 12203	22k 1/8W 5%
R303	4822 050 14709	47 $\Omega$ 1/8W 5%
R307	4822 111 92003	47 $\Omega$ 1W 5%
R309	4822 050 11502	1k5 1/8W 5%
R317	4822 050 18202	8k2 1/8W 5%
R321	4822 050 13901	390 $\Omega$ 1/8W 5%
R323	4822 050 15601	560 $\Omega$ 1/8W 5%
R325	4822 111 92001	1 $\Omega$ 1W 5%
R345	4822 050 12202	2k2 1/8W 5%
R347	4822 050 11004	100k 1/8W 5%
R351	4822 050 13303	33k 1/8W 5%
R357	4822 050 15104	510k 1/8W 5%
R363	4822 050 14701	470 $\Omega$ 1/4W 5%
R371	4822 050 12402	2k4 1/8W 5%
R378	4822 111 92005	0.1 $\Omega$ x1



C101	4822 124 23689	2.2 $\mu$ F 50V 20%
C102	4822 124 23688	10 $\mu$ F 16V 10%
C103	4822 126 11462	470pF 10%
C107	4822 126 11461	220pF 10%
C110	4822 124 23684	10 $\mu$ F 16V 20%
C111	4822 124 23696	0.068 $\mu$ F 50V 5%
C112	4822 124 23693	0.15 $\mu$ F 50V 5%
C113	4822 124 23686	1.5 $\mu$ F 50V 20%
C120	4822 126 11459	100pF 10%
C122	4822 126 11457	22pF 10%
C123	4822 126 11458	4.7pF 10%
C124	4822 121 42499	0.12 $\mu$ F
C129	4822 124 23692	0.12 $\mu$ F 50V 5%
C130	4822 124 23694	0.022 $\mu$ F 50V 5%
C131	4822 124 23695	0.047 $\mu$ F 50V 5%
C301	4822 124 23683	47 $\mu$ F 25V 20%
C302	4822 124 23707	470 $\mu$ F 16V 20%
C303	4822 124 21775	100 $\mu$ F 25V 20%
C309	4822 124 23682	220 $\mu$ F 25V 20%
C311	4822 124 23681	100 $\mu$ F 25V 20%
C315	4822 126 11463	560pF 10%
C329	4822 124 23706	470 $\mu$ F 50V 20%
C332	4822 124 23703	3300 $\mu$ F 16V 10%
C334	4822 124 23678	220 $\mu$ F 16V 20%
C337	4822 124 23691	0.001 $\mu$ F 50V 5%
C340	4822 124 23687	3.3 $\mu$ F 50V 10%
C341	4822 124 23704	470 $\mu$ F 16V 20%
C342	4822 124 23679	33 $\mu$ F 16V 20%